

Record

B.C. plants (Dr. Fletcher)

Rubus nutkanus - thimbleberry
Ceanothus sanguineus
Prunus emarginata - wild cherry
Populus tremuloides - aspen
Pachystima myrsinites - 1150 plant
Pseudotsuga douglasii
Betula papyrifera
Berberis aquifolium
Ribes sanguineum - sticky gooseberry
Epilobium angustifolium
Populus balsamea - balm o' gilead
Alnus rubra
Anaphalis margaritacea - snaphalium
Hieracium albiflorum - 1167 weed
Shepherdia canadensis - soapberry
Ribes lacustre - thorny gooseberry

1123-1374

Mosquitoes p 12, 21, 29, 31, 68, 110, 184 (1902-4)

Harrison G. Dyar
 Center Harbor
 N. H.

July 9 1902.

1123 slightly oblique
 Eggs by ♀ Looper 18355 Center Harbor N.H. July 15 1902.
 Elongate elliptical, strongly rounded flattened on a
 side, narrowed toward the truncated end which
 is rounded, flattened, depressed at other end.
 Surface smooth but studded with elevated white
 granules, found at the crests of the pores at the angles
 of the obsolete reticulation. These granules are arranged
 in circles of various sizes containing from 4 to 9 granules
 each. They are large over the ends and edges but
 become small in the center of the flat sides which
 are concavely sunken. Dark olive yellow, the
 granules pure white, contrasted. $.8 \times .5 \times .3$ mm.

Emmett's camp flies 1123 1/2
 Kaslo BC June 1903. 1st and 2nd green, black dots
 a slender vertical line on anterior and also mid
 on lobe darker, eye black. Feet 6-11, 13. Green
 6-annulate, minute black points on 2 & 4
 annulet & 5 & 6. Spines dark.
 Emerging June 10, 11, 12 etc

(1141 cont) Body yellowish and brown ground black
 dotted reticulate, papillae granular. D. pale line
 edged by small black dots. Lines being remains of the
 obsolete dorsal lateral markings. 12 feet black streak
 behind the folds line of ii. 8d line pale wavy
 narrow black above, below with trigonate black dots
 patches, traces of a lat. line, subity line broad, white
 lined, blackish dotted. Sore & grey-black pubescent
 shaded. The feet black mixed. 1st grey dotted
 2nd black small black, above center of, setae short
 stout heavily swollen at tip, compressed, dentate
 somewhat like scaled pale horn. Spines black.
 Super Aug 9

1124

Egg by ♀ Detroit 18366, Center Harbor N.H., July 16, 1902. Found on the cover. Spheroidal, the base flattened. Smooth with only fine obscure hexagonal reticulations. Shining pale yellow. D. 5, height 4 mm.

Hatched June 25 - Hd bilobed cordate. Translucent pale brown eye black mouth brown. Body cylindrical, conical, miniform. 12 scarcely enlarged, ends abrupt, rounded. Translucent pale yellowish, slender. Leg joints and the large ones tubercles black. Semilobed, the feet of 7 & 8 very short and not used. Setae pale, distinct. On moist dead maple leaves. VII 26

Shed July 31 Hd. 4 pale brown fine darker reticulate, ocelli black. Body thick, 12 slightly enlarged, all mostly black & a darker diffuse blackish d. line. Tubercles slightly elevated blackish & pale rings. Setae small pale ~~capitate~~. Feet reduced. Shells concolorous, not conified. Int. of 7 a little shortened.

Aug 12 Hd. 5 bilobed, pale brown, obscure dark brown reticulate. Body flattened, 12 a little enlarged d. pale dark brown, almost whitish & straight sinuous d. line. Tubercles obscure and trace of a darker d. line; head region being mottled in brown. Setae a narrow clear space below d. line. Tubercles small, rounded.

Aug 23 Hd. 6.5 same Body dark brown, darker back & shining pale d. a dark reddish brown d. line. Diffusely edged. A rather broad light 8-9 seg. band yellow dotted on its edge. Most distinctly on upper edge.

Subventral & feet brown, rather clear & little sinuous. Tubercles large not shiny rows, dark brown setae pale, head down to body & directed post. (See also interesting, Sept 8)

1125

Eggs by 9 Cooper 18368 Center Harbor NH July 16 1912. Laid
 at top of tumbler singly or in patches. Elongate elliptical
 strongly rounded flattened on 2 sides, depressed and
 smoothly rounded the other very sharply and
 broadly truncate. Rets arranged in straight rows
 the cross lines less distinct than the longitudinal
 ones which form fine raised wavy lines about 24
 on the egg. They run sharply to the truncation becoming
 reticulate there and to the depressed end diminishing
 in number by confluence. Strong green the rets
 a little whitish. Size .6 x .4 x .3 mm. Turned dark red
 Hatched July 25 NH rounded, convex in front slightly bilobed
 yellowish later, a dusky shade over median suture
 forming an erect band and a more defined darker line
 along side of head from eyes. mouth brown w. mm.
 Body moderate normal, cylindrical, equal. pale ochre, a
 straight dorsal band from 2 ant-12 and a s-v one 2 ant
 to anal feet dark brown red, defined contrasted,
 uniform, continuing the waves on head. Shields
 undifferentiated, tubercle minute, setae short, pale,
 minutely capitate. Feet concolorous, a brown stripe
 on the outside of the anal ones. (Revised form)

1126

Lively wiggler on white hick. Solds over youngish leaf
on back side with soft wet and pucker within.
Leaves not stem touched. Hd elongate, flatly extended
whitish eye black w. a dark dash on side post.
Body slender, smaller at ends, feet normal. Translucent
green, prod dark. Tubercles rather large slightly elevated
yellowish white, contrasted against dark prod.
ia+it, ii+iii, iv+v. vi+vi chameleon with body
shield uncorrupted, feet pale. (wormy) ^{Ext ant. 1126}
(wormy)

1127

Regulated webbing up shoot of Mex (by leaves) into a
ball breaking top of stem - flaccid within. Big larva
solitary. Translucent, milky whitish, d. several
clear. Tubercles large murky brown, pale central
iv+v. Hd pale brown, flatly extended, darker about eye
& a mouth 1.6 mm. Cth large, shiny black with
a broad median dilution of pale luteous
ia+it, ii+iii, iv+v and on 3 it+ii in a large
diluted part. On 13 and a large elliptical d. plate
behind i; anal pl. weakly colored. Feet pale normal
no anules. Post shows dark.
Cult Aug 20 1902 Cult no. 18464

1128

Green noctuid on wild sunflower from A. H. Verrill.
New Haven Ct. July 31 1902. Hd slightly (globed) feet green
on attenuated white row on face each side & the
apex ocelli divergent. Body rather slender, no hump
green feet normal. D. 2d line rather broad, white
even, stig. double, narrow (the green filling being color
of ground and even) D. 1 lat. space filled with
opaque yellowish white except narrow green edge
to the line. Tubercles whitish irregularly green edged
Hairs fine black, iv below spinous. Feet pale. Shield
looking white shading otherwise concolorous and
cyl crossed by d. & sd lines.
Cult Aug 14 1902 Cult no. 18460

1129

Larva on *asclepias* from A. H. Verrill, New Haven Ct.
 Said to be green when young & day feeders then.
 Hd 3 mm rounded, slightly flattened before, apex well
 under 2. Pale reddish brown thickly freckled with
 angular blackish dots. Brg thick, robust, cylin-
 drical, equal, 13 a little smaller. Carinae
 brown with numerous black bands under them
 the spaces broken mottled and dotted
 with the ground color. A broad slightly paler
 subapical band below which the mottled bands
 reappear but rather more pale. Venter all
 smoky & obscured, dotted. Tubercles in black
 blotches, setae small. The feet reddish like
 head, no shields; anal plate large, obviously
 pointed behind. Spiracles dark orange, black ringed
 at 9 the black band in dorsal space, all irregularly
 almost checkered laterally, defining double d.
 black patch in interspace and a broad shade lat.
 abd. feet pale reddish.

1130

Cat worms from Mr. A. H. Verrill, New Haven Ct.
 York like *M. C. nigricornis* (see below)
 Cat Sept 5 1902. Cat nos 18482-3

1131 *Chrysothrips carina?*

Little larvae in a web, gregarious & inversed mine
 from A. H. Verrill, New Haven Ct., Aug 3, 1902.
 Hd 3 slightly bilobed, flattened, 1.5 high, oblique, thick,
 apex not in 2; pale yellow eye large black annule
 brown. Body cylindrical, equal, moderately robust
 13 smaller. Grounds heavy yellow with irregular
 white rings about the tubercles that on the thorax
 form dotted admedian lines. Tubercles distinct, under
 elevated, moderate large, dusky, setae
 pale, mostly directed forward, i slightly directed to ii
 except a 12, iv + v obliquely pointed, vi represented by an
 obscure hairless tubercle, setae with minute bellum
 tips. Feet normal, crochets in hook circle four or out in

[Eggs in a flat patch like shingles on back of leaf.
 skins reticulate in a radial pattern like over-
 lapping scales or else irregularly reticulate.
 Egg elliptical 1.2 x .8, very flat. Shell white.]
 Stage II Hd. 5 mm shiny black erect, flattened before yet
 rather thick, very slightly bilobed, scarcely retracted
 in 2. Body black the shield shining, tubercles
 low rounded, congested at the edges surrounded
 by irregular white blotches which form dotted d.
 & add lines on thorax, more distinct also on S-V
 fold. Feet normal, abd ones short, venter unmarked.
 Aug 7 Hd 8 black, flatly extended, apex in 2, sparsely
 white checkered below. Head flattened v. blackish annulate
 tubercles black with adjacent white dots and other
 forming a horse sd line and line along S-V fold.
 Shed Aug 14 Hd 1.4 black, flatly extended, shiny, 2 white
 spots in d, one on paraclypeal line below, and about 6
 more in a circle on side of lobe. Body black with many
 irregularly shaped white dots in d. add sd, lat, stig
 and/or none, then add. being most developed. Feet black
 normal. Shields more shiny but all colored alike.
 Shed Aug 23 Hd 1.9 Hd as before but additional white spots
 on apex paraclypeal line and vertex. Body same, but
 thick spotted with small irregular marks. Setae
 from rather long. Shields concolorous.
 Shed Sept 1 Hd 2.8 The same. Black, heavily dotted
 with white. Skin annulate & wrinkled, the white
 dots but by annulated inclosures & irregular edged. Setae
 2 or 3 per seg in longitudinal rows, d. add sd, lat, cape
 stig, then substig confused rows. S-V contracted, prod. end
 somewhat tapered - bridge broken.

shields concolorous

March 3, 1903

10 Cale .3 .45 .65 .9 1.3 1.85 2
.26 .47 .78 1.3 2.1 6/10

1132

Eggs larvae of *Phryganidia compressipalpis* on worm-
seed vine from A. H. Verrill, near Haven, Cal.
Egg $\frac{2}{3}$ spherical, base flattened, pale yellow, not shiny,
smooth, very obscurely rounded reticulate, the net. an-
ranged in vertical rows with the ribs a trace more
distinct and finely reticulate at vertex. The whole
sculpturing is very faint, shadowy, like markings
or slight flatterings rather than definite raised with D. 6
Stage I. Hd small, rounded lobed, crenate, jointed bluntly
at mouth, erect, white. Eye black, mouth brown, w. .3 m
body cylindrical, unival, 12 a trace enlarged, 13 abrupt,
rounded, feet 7-8 lifting absent, translucent white
faint green, tubercles, setae orange black distinct
unival, vi absent, no shields whatever, feet all
pale like body. iii v also in thorax in iiit separate.
Stage II. Hd small, slightly lobed, m. nature defined,
disproportionate, not shiny greenish pale yellow, eye
black, mouth brown. Body slender, elongate feet
absent in 7-8, eye obscurely annulate. Pale greenish
green from feet, slightly shiny smooth, a broad
black lat. spot on segs 4-8. Tubercles & shields obsolete.
Stage III. Hd .75 white not shiny, green tinted in lobes, stage
glance, green, whitish s-v, not shiny, a broad dark
lat. shade continuing in the lower part around
seg black spots 4-9. no shields nor tubercles
with same lat. 1.8 [Stage before lat 1.3 colored in kind dirt
from first like mat. all worms]
Stage IV. Hd 1.3 Green with the black lat. line & spots as before.
(Sh. lat. 75) Stage V. Hd 1.9 kind dirt coloration - mat.

1133

Stage I. Hd .3. 1st pair of legs usually extended while
2nd & 3rd are appressed; a slight v. prominence on 6 & 7 at
bearing small spines. a large lat. crinal prominence on 9
above & before spiracle with black spines a low, annulate
collar on 12, pale marked lat. 2. Feet normal, a s-v
white fringe below 10 & 12, anal pl. a big shield
large, & gray. Body green, more or less marked with
gray & brown, sometimes mostly brown. The gray
occurs in separate bands, darkest on 9 & 12 all
rest gray dorsal brown shaded 7 the feet

light reddish with nearly black shading at the bases
Spiracles reddish. Skin with many 2^d granules more white
but bearing black spines on the humps & clavate capitate
papillae in s-v fringe 9-12. 1st setae faint black, from small
black tubercle, normal 1133 except about 5 setae represent vii

Amphidasy cognatae from the Lymnaea on water in I. 8/26
Hd round bilobed, full, blackish on top, dull roiled on
s-v mouth; sutures s deep, well marked w. s & s-v mouth,
condensed round, white

Phryganidia compressipalpis
Green
cognatae
Lycia
the 1st pair of legs
are appressed
while the 2nd & 3rd
are extended
while the 1st pair
are appressed
while the 2nd & 3rd
are extended

Stage I. Hd .3. 1st pair of legs usually extended while
2nd & 3rd are appressed; a slight v. prominence on 6 & 7 at
bearing small spines. a large lat. crinal prominence on 9
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Columbia ^{AND} HARTFORD BICYCLES

1877-TWENTY FIFTH YEAR-1902

HOME OFFICE, HARTFORD, CONN.

The wheel of Time goes cycling on
Around the boulevard of space;
The planets trace about the sun
Their shining paths with matchless grace;
While round the world, from zone to zone,
COLUMBIA's steel-clad courses speed;
O happy weights that sit thereon,
How has invention served your need!

Emma Scarr Booth.

12/30

364-1

Tuesday

December 30

Crane of cognatae a look

~~Ext. W. Crane from Schenck~~

Lygia cognataria Guen

The eggs have been broken by a P.W. crane
and there are several good descriptions
of the mature larvae by Crane besides a poor

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Mr. Mc See *Copied from*



NEW MOON.

12/29

363—2

Monday
December 29

Obligate, rounded and distinct fracture
also a broken, ends rounded and smooth
alike, no distinct fracture of surface
and no marked depression of the other end
Rets. distinct, in longitudinal view, forming
small ridges, then cross section partly a
little weaker than the longitudinal view
Rets. composed of the small and large
strongly rounded. Size .6 x .4 x .3 mm
Color bright green (yellow) faint trace

154

Spec. 4 of *Quercus agrifolia* Cat 18976, Fort Washington, Pa. 1906.
Cat 18975, 1906. *Quercus agrifolia* (Lam.) Mill. var. *agrifolia* (Lam.) Mill.
Fort Washington, Pa. 1906. Cat 18976, 1906.

1. 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st 32nd 33rd 34th 35th 36th 37th 38th 39th 40th 41st 42nd 43rd 44th 45th 46th 47th 48th 49th 50th 51st 52nd 53rd 54th 55th 56th 57th 58th 59th 60th 61st 62nd 63rd 64th 65th 66th 67th 68th 69th 70th 71st 72nd 73rd 74th 75th 76th 77th 78th 79th 80th 81st 82nd 83rd 84th 85th 86th 87th 88th 89th 90th 91st 92nd 93rd 94th 95th 96th 97th 98th 99th 100th 101st 102nd 103rd 104th 105th 106th 107th 108th 109th 110th 111th 112th 113th 114th 115th 116th 117th 118th 119th 120th 121st 122nd 123rd 124th 125th 126th 127th 128th 129th 130th 131st 132nd 133rd 134th 135th 136th 137th 138th 139th 140th 141st 142nd 143rd 144th 145th 146th 147th 148th 149th 150th 151st 152nd 153rd 154th 155th 156th 157th 158th 159th 160th 161st 162nd 163rd 164th 165th 166th 167th 168th 169th 170th 171st 172nd 173rd 174th 175th 176th 177th 178th 179th 180th 181st 182nd 183rd 184th 185th 186th 187th 188th 189th 190th 191st 192nd 193rd 194th 195th 196th 197th 198th 199th 200th 201st 202nd 203rd 204th 205th 206th 207th 208th 209th 210th 211st 212th 213th 214th 215th 216th 217th 218th 219th 220th 221st 222nd 223rd 224th 225th 226th 227th 228th 229th 230th 231st 232nd 233rd 234th 235th 236th 237th 238th 239th 240th 241st 242nd 243rd 244th 245th 246th 247th 248th 249th 250th 251st 252nd 253rd 254th 255th 256th 257th 258th 259th 260th 261st 262nd 263rd 264th 265th 266th 267th 268th 269th 270th 271st 272nd 273rd 274th 275th 276th 277th 278th 279th 280th 281st 282nd 283rd 284th 285th 286th 287th 288th 289th 290th 291st 292nd 293rd 294th 295th 296th 297th 298th 299th 300th 301st 302nd 303rd 304th 305th 306th 307th 308th 309th 310th 311st 312th 313th 314th 315th 316th 317th 318th 319th 320th 321st 322nd 323rd 324th 325th 326th 327th 328th 329th 330th 331st 332nd 333rd 334th 335th 336th 337th 338th 339th 340th 341st 342nd 343rd 344th 345th 346th 347th 348th 349th 350th 351st 352nd 353rd 354th 355th 356th 357th 358th 359th 360th 361st 362nd 363rd 364th 365th 366th 367th 368th 369th 370th 371st 372nd 373rd 374th 375th 376th 377th 378th 379th 380th 381st 382nd 383rd 384th 385th 386th 387th 388th 389th 390th 391st 392nd 393rd 394th 395th 396th 397th 398th 399th 400th 401st 402nd 403rd 404th 405th 406th 407th 408th 409th 410th 411st 412th 413th 414th 415th 416th 417th 418th 419th 420th 421st 422nd 423rd 424th 425th 426th 427th 428th 429th 430th 431st 432nd 433rd 434th 435th 436th 437th 438th 439th 440th 441st 442nd 443rd 444th 445th 446th 447th 448th 449th 450th 451st 452nd 453rd 454th 455th 456th 457th 458th 459th 460th 461st 462nd 463rd 464th 465th 466th 467th 468th 469th 470th 471st 472nd 473rd 474th 475th 476th 477th 478th 479th 480th 481st 482nd 483rd 484th 485th 486th 487th 488th 489th 490th 491st 492nd 493rd 494th 495th 496th 497th 498th 499th 500th 501st 502nd 503rd 504th 505th 506th 507th 508th 509th 510th 511st 512th 513th 514th 515th 516th 517th 518th 519th 520th 521st 522nd 523rd 524th 525th 526th 527th 528th 529th 530th 531st 532nd 533rd 534th 535th 536th 537th 538th 539th 540th 541st 542nd 543rd 544th 545th 546th 547th 548th 549th 550th 551st 552nd 553rd 554th 555th 556th 557th 558th 559th 560th 561st 562nd 563rd 564th 565th 566th 567th 568th 569th 570th 571st 572nd 573rd 574th 575th 576th 577th 578th 579th 580th 581st 582nd 583rd 584th 585th 586th 587th 588th 589th 590th 591st 592nd 593rd 594th 595th 596th 597th 598th 599th 600th 601st 602nd 603rd 604th 605th 606th 607th 608th 609th 610th 611st 612th 613th 614th 615th 616th 617th 618th 619th 620th 621st 622nd 623rd 624th 625th 626th 627th 628th 629th 630th 631st 632nd 633rd 634th 635th 636th 637th 638th 639th 640th 641st 642nd 643rd 644th 645th 646th 647th 648th 649th 650th 651st 652nd 653rd 654th 655th 656th 657th 658th 659th 660th 661st 662nd 663rd 664th 665th 666th 667th 668th 669th 670th 671st 672nd 673rd 674th 675th 676th 677th 678th 679th 680th 681st 682nd 683rd 684th 685th 686th 687th 688th 689th 690th 691st 692nd 693rd 694th 695th 696th 697th 698th 699th 700th 701st 702nd 703rd 704th 705th 706th 707th 708th 709th 710th 711st 712th 713th 714th 715th 716th 717th 718th 719th 720th 721st 722nd 723rd 724th 725th 726th 727th 728th 729th 730th 731st 732nd 733rd 734th 735th 736th 737th 738th 739th 740th 741st 742nd 743rd 744th 745th 746th 747th 748th 749th 750th 751st 752nd 753rd 754th 755th 756th 757th 758th 759th 760th 761st 762nd 763rd 764th 765th 766th 767th 768th 769th 770th 771st 772nd 773rd 774th 775th 776th 777th 778th 779th 780th 781st 782nd 783rd 784th 785th 786th 787th 788th 789th 790th 791st 792nd 793rd 794th 795th 796th 797th 798th 799th 800th 801st 802nd 803rd 804th 805th 806th 807th 808th 809th 810th 811st 812th 813th 814th 815th 816th 817th 818th 819th 820th 821st 822nd 823rd 824th 825th 826th 827th 828th 829th 830th 831st 832nd 833rd 834th 835th 836th 837th 838th 839th 8

The first thing I noticed when I stepped
 out of the boat was the smell of the sea.
 It was a fresh, salty smell that I had never
 experienced before. The water was a deep
 blue, and the sky was a pale blue. The
 sun was shining brightly, and the wind was
 blowing gently. I felt a sense of peace and
 tranquility that I had never felt before.

Murphy's Law - No, Ranger.

-118 Same. Small got near stream bridge & away
soon to be all Therapsids. This group changed & populatio
Oct 216 & nightmares (Cory. now det.)

#419 St Lawrence Is., Ind. collected by G. Smith and J. H. M. from
by Mr. Kottelberg. Shingles to see Therapsid. All.

4120 Green from crossing of road to the border of the canal
on low path opposite Plumeros to Verde. Oct 1, 1902.
Collected with Mr. Barker, TOMODI purpose. Some larvae
left which pupated quickly.

Sample #	Year	Month	Day	Time	Location	Notes
121	1984	10	12	12:00	XX4 X8	Culex agilis - 1
122	1984	10	12	12:00	XX4 X7	Culex agilis - 1
123	1984	10	12	12:00	XX4 X8	Culex agilis - 1
124	1984	10	12	12:00	XX4 X7	Culex agilis - 1
125	1984	10	12	12:00	XX4 X8	Culex agilis - 1
126	1984	10	12	12:00	XX4 X7	Culex agilis - 1
127	1984	10	12	12:00	XX4 X8	Culex agilis - 1
128	1984	10	12	12:00	XX4 X7	Culex agilis - 1
129	1984	10	12	12:00	XX4 X8	Culex agilis - 1
130	1984	10	12	12:00	XX4 X7	Culex agilis - 1
131	1984	10	12	12:00	XX4 X8	Culex agilis - 1
132	1984	10	12	12:00	XX4 X7	Culex agilis - 1
133	1984	10	12	12:00	XX4 X8	Culex agilis - 1
134	1984	10	12	12:00	XX4 X7	Culex agilis - 1
135	1984	10	12	12:00	XX4 X8	Culex agilis - 1
136	1984	10	12	12:00	XX4 X7	Culex agilis - 1
137	1984	10	12	12:00	XX4 X8	Culex agilis - 1
138	1984	10	12	12:00	XX4 X7	Culex agilis - 1
139	1984	10	12	12:00	XX4 X8	Culex agilis - 1
140	1984	10	12	12:00	XX4 X7	Culex agilis - 1
141	1984	10	12	12:00	XX4 X8	Culex agilis - 1
142	1984	10	12	12:00	XX4 X7	Culex agilis - 1
143	1984	10	12	12:00	XX4 X8	Culex agilis - 1
144	1984	10	12	12:00	XX4 X7	Culex agilis - 1
145	1984	10	12	12:00	XX4 X8	Culex agilis - 1
146	1984	10	12	12:00	XX4 X7	Culex agilis - 1
147	1984	10	12	12:00	XX4 X8	Culex agilis - 1
148	1984	10	12	12:00	XX4 X7	Culex agilis - 1
149	1984	10	12	12:00	XX4 X8	Culex agilis - 1
150	1984	10	12	12:00	XX4 X7	Culex agilis - 1

#117 1st hole larvae 1st of June and 1st hole, both in
 white. Larva above 1st hole 15 wd. Oct 1, 1921.
 #118 1st hole larvae 1st of June. Hatched Nov 9, 1921.
 #119 1st hole larvae 1st of June. 29 x 14. Color atropalpin 2
 #120 1st hole larvae 1st of June. 25 x 10. Color atropalpin 2
 #121 1st hole larvae 1st of June. (Hatched)
 #122 1st hole larvae 1st of June. 21 x 17. Color atropalpin 2
 #123 1st hole larvae 1st of June. 21 x 17. Color atropalpin 4
 #124 1st hole larvae 1st of June. 21 x 16. Color atropalpin 2
 #125 1st hole larvae 1st of June. 27 x 12. Color atropalpin 2
 #126 1st hole larvae 1st of June. 21 x 14. Color atropalpin 2
 #127 1st hole larvae 1st of June. 25 x 10. Color atropalpin 2
 #128 1st hole larvae 1st of June. 24 x 10. Color atropalpin 2

232 Larvae from 9. Turner Beckley, Horns From N.Y.
"collected 2nd & 3rd, Ret'd from *Tricentris beetle"

a $\Sigma 23 \Sigma 26$ (red) f $\Sigma 24 \Sigma 26$ (red) g $\Sigma 24 \Sigma 27$ (red)
 h $\Sigma 23 \Sigma 26$ (red) i $\Sigma 24 \Sigma 27$ (red) h $\Sigma 30 \Sigma 2$ (red)
 C $\Sigma 23 \Sigma 26$ (red) f $\Sigma 24 \Sigma 27$ (red)

1147

Eggs by ♀? *Salixia alaphararia*, coll. 18648. Kaslo BC
May 30, 31, 1903. Pale yellow turning red. Elliptical
concave flat on sides, blunt at one end, the
other depressed but all rounded. Smooth verrucate
granular along ground ventral side. $1 \times .7 \times .6$ mm
(eggs infertile).

(1948 cont.) - 2nd subadult band ochraceous, brown streaked with black. 2nd line shaded brown. Subventral spots forming pattern at ant. 1 just end of seg. with odd spots at 1 making a lattice with a quadrate black spot patch breaking the pattern 2nd line behind 11. Sides brownish black shaded except anal space. Last 2 subseg. line brown, broad 5-6 line (11) rather broad, whitish. Tubercles black, 14 with white spots around it. Spinal pale. Gen. 21 Cream at joint of alae. Alae pale.

Red to T in ground July 3

1149

Scirpus titanicus Hubb.

Oct 11 1923 7.25 41

4 eggs by 3 from 18701 Kestrel 22 Jan. 1903. Color yellow
turning red. Egg with dorsal inter fluting mic-
ropyle star-shaped. Spine small, rounded. The
incubation sharp end of Beta flange. Strong
and somewhat distinct. The highest line
stronger than the previous one. Fine apparent
rids which are irregular, decreasing by confluence
towards ends & on narrowing of sides. Ridges strong
the cell is not flat in the center. A rather strong
line under the incubation which is strongly reticulated
6 x 4 x 3 mm.

Hatched June 10. Hd black, pale brown eyes, dark mouth line
 and chin, looking black. 1st pale yellow, brownish, 2nd
 3rd black. Young with whitish brown d & s. Ground
 brownish. 1st black and 2nd brownish. (1st brownish)
 1st and 2nd black. 1st black could not be seen. June 17

[illegible]

Stalks glaucous. Broad leaves edged by very
dark & slightly wavy lines. Scales black, blunt, pointed
marginate. Feet pale, no stipes.

[illegible][illegible]

Leucoptera pachytruncata Burd

115

that resembles in last years leaves. I was seen. Glauca
like bluish green with serrulate leaves. Fls. like the rest
of the species. Two crines pinched, finely felt whole
leaf. The fruit suspended in a hook at the end
Young evergreen of leaf on upper side when young
of. Spine a brownish white band. (All
same in shade) in fruit. Larva light yellow

1151

1151
 Inland, on yellow, wet soil and leaves, and probably out
 in the field. Hatched 22. Hatching 4. July 1904.
 Not 1. Head blackish pale translucent brown, greyish
 dusky shaded over sides, apex flattened. A large
 head, somewhat slender. Tarsal segments not very
 distinct, translucent pale beneath yellow. The feet very
 opaque, not filling body. Body being translucent
 pale beneath a little dusky blackish about edges.
 Antennae conspicuous, somewhat a little strong. Setae pale
 just above pale, no spots. Small blackish spots
 on 9 and 10. Eye blackish behind black. Antennae
 11+12. Hatched 11+12.

Box 1, North, 11+V.
 Out June 18 1962 cut mid 19380 Evaluation credit
 paid

1257 A. Varied with some leuciscent? Hb. of all stages. Subst. dark brown black, spines, base of antennae white. Ant. small, 4th. long, various colors. Body much of slender dark brown. 1st. 2d. (1st), 3d. (1st) brown, massive, quadrangular, lobes, black, white, subst., head very broad same color, enclosing 10 + 8. Feet pale but heavily darkened the anal feet flat. Antennae small, black; with moderate density the feet black.

1954 10-25-54
 1954 10-25-54 20557 Eucalyptus alba 10

1152 = 1157

Noctuids on *Asplenium* Island Kaslo BC June 1 1903
 Plant probably "Mithras". Larvae green noctuids
 d. sd & head slightly whitish band. sd small. Body
 all white d. sd. Larvae small "white"
 Spent white bands merged. ss band goes below
 dorsal line. It slightly enlarged
 Head green & red fine ant = 1157 g.v.

1154 Larva of 1153 but 4th whitish pale honey white
 not transparent, dotted white, & dorsal line
 a narrow line of sd white line & 2 grey lines, stig
 slightly enlarged. Head green. Head June 4 = 1183 but d. line
 better shown. June 15. Cat. 24186

1153

Found in aspen Kaslo BC June 1 1903 *Spinothrips*
 according to the collector who like the common one
 a Colorado. It is in a nest house of leaves
 and a hole at base and solitary.
 It about 3 mm rounded flat like yellowish white
 in face which is edged by a narrow white
 honey comb band, fine & narrow & smooth
 head. Body covered flattened scutellae 12 not
 enlarged. Translucent green from food & head
 a broad dorsal pale white band 3-13, narrow
 color all green not compressed - a similar
 but narrow & broken sd line. A narrow
 undulating white line. Resembling tracheal line
 the first black slightly old. narrow tubular
 small feet white with dark hair dots. It all
 have some small spots black edged. Some
 elongated. June 15. Cat no 20507

1154 *Altitarsus dupleyi* ^{vols}

Green Tortricid in aspen Kaslo BC, open before
 described. June 2 1903 pupa
 Cat June 13 1903 Cat no 19140

1155

Leaf miner in aspen, Kaslo BC June 1 1903

Phyllocnistis? a leaf of leaf covering
 almost the whole leaf but not
 killing it. Bands of dark and separate
 some long brown line from base to a
 corner slightly contracted. Rarely
 on upper side of leaf.
 (See slide).



June 12 1903 Cat no 19241

Phyllocnistis populiella Ch

1156

Leaf roller & stitcher in aspen Kaslo BC June 1
 1903. Makes a round roll ends closed and
 cover with stitches outside. Cate inner part.
 It shaped like black skeleton to form a hole
 on roll, & large d. to enter, shining. Cate shiny black
 a line of d. to enter, shining. Cate shiny black
 center of roll half: edged by pale d. line; and some
 d. line. Body tubular, translucent, reddish
 from aspen, white round black, 10-12
 11-12, 13-14, small fl. large, brown black. Setae
 both fine dusky. The feet black
 June 14 Cat 20046

Anacampsis constrictella Ch

1157 = 1152

Protrudes on plantain from Mrs. Coole
 Hd rounded apex, and very pale brown, mottled
 on base of leaf. High cylindrical crown. Crown
 raised. C. the whole with a few pale dots and by
 white ed line, mostly confined. Body light brown
 minutely dotted with whitish. A series of dark
 marks 5-12 and showing an area of light
 angles anteriorly. Lighter centrally, cut by narrow
 brown borders. Behind of line it is small white
 area. Pale of line black edged. SS line broad,
 yellow by mottling, a lower ground till mid. It
 edges show white, white dotted as all the
 and deep SD region. III-VI white, not as
 contrasted as I-IV. Feet all pale.

Oct 18 1932

1158

Selections on Ceanothus Kauls 11 June 1953
 (1) elongate, oblique, scarcely bifid, shiny, smooth
 black. C. the large black, 5th pair all 2-4 dark
 minor except 2 light white incision 2-3 & 5-6
 which is folded, white all around. 5-13 broad
 to black by into and dark brown. Shape about
 as in white, the pale line of, ed, lat, sty. Tail pale
 and plate minor black. Subventral small black
 white moderate dusky.

Oct June 16 1954-9

Selection ceanothus
 Bruck

1159

Yoope on Ceanothus Kauls BC June 1 1953
 Hd 2-4 rounded bifid, shiny, green dotted with white
 scales, white dots. Body white, mottled, smooth
 green faint white streaks dotted. Sd line white
 faint, sd more distinct, dark brown or concolorous with
 almost an anal fl. lat line about 1/2 in. Sd, dusky
 yellow narrow, suffusing a yellow shade in the green
 about 1/2 especially at apophysis which are orange
 brown haired. Subventral broad small nearly black
 feet green, 1st 2 and 3rd slightly black dotted
 Oct Aug 23 1932

1160

Striped back wingless on Ceanothus, growing on
 BC June 1 1953 Hd rounded apex 2-4, shiny greenish
 brown eye black. Body rather robust, slightly
 flattened, tapering, little or no dorsal, smooth
 whitish green, a white lateral streak, a narrow
 broad yellowish white sd band over 1/2 in the
 whole length, a little narrower a row of un-
 at cap. Subventral unicolor, hair black, brown,
 white moderate dusky. IV-V. Feet rounded
 as abd with white of current a round plate
 or fold prominent. (Died)

1161

Bluish black wingless with 1160. Tachiniform, Hd pale
 brown. Body black in a and base of antennae
 C. the rounded, white black on 1st & 2nd. Body
 with pale dusky line. Body black, all shiny
 yellowish, subventral a little shiny. No marks. Spine
 brownish black rounded, yellow hd brown, C. the black
 dorsal broad cut. Venter green. Subventral
 and round, translucent.

Oct June 16 1953

1162

Larva on clammy gooseberry Kask BC June 1 1953
 Hd 1.5 rounded, shiny, whitish, heavily shagreened.
 Pale brownish yellow, no other small white.
 Body rounded, slender, the skin densely clothed
 with minute, stiff, white hairs and numerous of the
 slightly elevated small, white tubercles. Feet 1-13.
 Setae dorsal small, dark, a distinct white
 seta line 2-13 & trace of a lateral one, a minute
 but distinct median central line. Ventral tubercles
 white later dorsal setae coarse white, not
 long. Feet all green.
 Crawl a red & yellow with a brown pipe green
 with a white dorsal stripe
 Jan 19 1953 Cat no 19404 *M. versicolor*

1163

Larva on clammy gooseberry Kask BC June 1 1953
 Hd 3.6, erect, white, a, green, forming white dotted
 on sides, with 6 mouth plates. Body cylindrical
 rounded, 12 a little attenuated behind, 12
 a trace of a hump. Green, streaked dotted with
 yellow, blueish, concolorous, massive, fine, 12 on
 white distinct 2 and 13 and indented in line on
 back slope 12-13. 8d yellow broken dotted line
 up a little in center of pipe up on 12. Subst
 line yellow narrowly brown, just reaching lower
 edge of wing, distinct & white in a small
 spot. Feet brown. D & 3d lines distinct.
 Spiracles white, 12 small, rounded.
 Small larvae similar. With parasites with 12
 on spine from 7. Slightly in red edge of pipe
 Jan 19 1953 Cat no 20326 *M. versicolor*

Egg June 25 1953 12 sets July 16 1953. 1st stage, scattering on leaf
 1st stage, slightly spherical, red, slightly without, small
 distinct, smooth, dark yellow, long, flattened in

1164

Larva on wild cherry Kask BC June 3 1953
 Larva rather wider, more like 1165 - maddening
 extending into a long blotch over front and
 back just like 1165. (slide) Common in Kask BC
 Jan 19 1953 Cat no 19681

1st stage, single, somewhat more withered, aged, not on
 any trace of a, whitish, shagreened. D. & 8 mm.
 (19 1953)

1165

Larva on Camellia Kask BC June 3 1953
 Larva rather linear, more slender, green, very
 maddening, ending in a blotch, trace of a line
 on side, extending from the blotch to dorsal.
 according to local change in Cat no. 18631 etc.
 (made more green) Feet all present.
 Common along Camellia June 9
 Jan 17 1953 Cat no 19536

1166

gathering heads of *Epilobium* Kaslo BC June 3 1913
 probably same as 80 from Colorado. Hd yellow
 a little, corolla apex in 2, shiny brown. Petals
 around ring in mature pale. Corolla shiny brown,
 mostly tinged. Petals unguiculate, small at ends.
 Spreading corolla greenish & glands ochraceous.
 Anthers blue for black. Substrate minute
 brown. 1st & 2nd long 1st & 2nd serrate, in lower 1st & 2nd
 is a little approximated in pair. Stem densely and
 minutely brown glandular. Setae rather long, pale.

1167 *Oxypterus virginicus* Nutt.

gathering heads & dry young leaves of mostly mistle pine
 plant Kaslo BC June 3 1913. Very little have had
 water past showing as pale in water and distorted
 the flowers compressed and from short stem and from
 up. Hd small bilobed pale brown yellow, smooth
 jointed. Body erect. Telling a little as to
 feet normal slender, dilated at top. Stems
 sheathed. Stems brown single coarse white
 1st. Slightly approximated the tubercle below; 1st
 single, 1st & 2nd closely 1. 1st single, the tubercles
 brownish tinged. Anthers small 23mm at top.
 white. Stem, lower, clavate tipped. Anthers green
 the 1st ends clear, densely covered with minute
 black fine granules. Spine black tinged.
 Tole - long brown from a soil

Large plant black from soil of the root like leaves
 on small open colored root

1167a. With 1167 moist young (on slide), head and gills
 white 22 hairs = 1167.

Oct 30/13 Cut 20/118

Arctostaphylos

1168

gathering heads of *Arctostaphylos* Kaslo BC June 3 1913
 1st green of apical bottom on sides and white
 base white at top, apical white. Corolla
 a faint yellowish line along; and 1st. Corolla
 faint yellow tinged. The feet blackish
 tubercles moderate white raised conspicuous
 1st black hair tubercles. Small fl. bottom. 1st & 2nd
 white black. Short black hair on sides and behind
 dorsal dark green. Sep. coarse, annulate.
 Oct 30/13 1903 Cut no. 19381

1169

gathering heads of *Arctostaphylos* Kaslo BC June 3 1913
 1st same as 80 from Colorado. Tubercles
 1st rounded, apex in 2, shiny brown. A little
 Corolla large shiny brown, translucent, blackish
 to black behind. Small fl. base black with some
 small shields in 13 and 1 single 1st. Body
 erect, tapering at ends, and very active. Tubercles
 yellowish yellow, feet sparsely green. Substrate
 black not distinct. Blackish tubercles, 1st & 2nd,
 1st & 2nd, 1st & 2nd, 1st & 2nd. Feet normal. Short,
 dorsal dark green. *Arctostaphylos*
 given Sept by Currier

1170

gathering heads of *Arctostaphylos* Kaslo BC June 3 1913
 1st same as 80 from Colorado. Tubercles
 1st rounded, apex in 2, shiny brown. A little
 Corolla large shiny brown, translucent, blackish
 to black behind. Small fl. base black with some
 small shields in 13 and 1 single 1st. Body
 erect, tapering at ends, and very active. Tubercles
 yellowish yellow, feet sparsely green. Substrate
 black not distinct. Blackish tubercles, 1st & 2nd,
 1st & 2nd, 1st & 2nd, 1st & 2nd. Feet normal. Short,
 dorsal dark green. *Arctostaphylos*
 given Sept by Currier

Oct 30/13 1913 Cut 20/17 A. *Arctostaphylos*

1171 = 1179

Dissectible larva, leaf miner Kaslo BC June 3 1903
 Caterpillar across on base of the veins on that it is an
 larva, pale green, with stem bases. Spins a web
 in the dead leaf, some larvae in large leaves seen
 to starve, not having food. Stem to eat & leaving web.
 Fold gallery web in withered leaf.
 Hd cordate shining black in front with mouth brown.
 Cth large shining between brown. Body shining and
 very white, tubercles small slightly raised, a little
 darker. Setae moderate, white. No other shield or
 marks. 1st & 2nd skin minute, apparently granular
 under 7 diameters. Dorsal somewhat brownish
 green, dusky, obscure. Lateral Hd tubercles, only
 prominent yellowish (see drawing)
 Cat no 3720

(1172) *Clethrionomys campestris* Zell

Red tubercled on thistle leaves Kaslo BC June 3 1903
 Hd rounded capitate, head oblique, smooth & even
 in front, 20 high, feet black slightly shiny, 10
 minute & black. Tubercles small joint anterior
 feet. Cth large dull black, various marked.
 Body slender, very active, a suffused dark
 brown from throughout, anal ft. black.
 Tubercles small slightly raised, appearing like
 hair, shiny by reflection of light, nearly smooth
 Setae moderate, brownish, longer on anal end
 IV + V; on thorax IV + V & V + VI also.

One of 1000 #10 cat no 3745 - Cat June 16 - Cat 19413

1172A - same late webbing thistle leaves, but tubercles
 less, somewhat fully white
 Cat June 16 - Cat 20291-2 - 1179

1173 (1174)

Larva on thistle leaves Kaslo BC June 3 1903
 Hd rounded pale brown slightly tubercled black
 B. 1 tubercle elongate, yellowish, not filled with oil
 many fine joint tubercles small black with undulate
 dark lines. Cth shining between, anal ft. & 1st joint
 dark black. Body and feet dusky brown. Tubercles & anal
 feet (Kaslo BC 1144) Cat June 7 Hd 5 - 1st black tubercles
 black, body long, slender tubercles yellowish
 green, without water. Tubercles, anal feet
 all tubercled, after stop dark. Cat June 10 Hd 1.7
 all tubercles white, tubercles. Tubercles small
 long, slender, white, 100 tubercles, not tubercled.
 Cat June 12. Cat another on same plant June 12
 Cat June 1.7 long, tubercled, green, shining, like
 full tubercles, shining, tubercles white, with
 dark white lines before eyes. Body rounded, elongate
 anal feet very wrinkled, rounded, anal feet large
 feet, all oblique, brown anal feet and dorsum
 B. 1 tubercles on various, tubercles elevated, rounded, like
 on bottom white, very faint black lines, like
 white lines, dorsal dark green. (Cat June 11)

Oct 10 1923

1111

Egg by 9 seen. 1111. Hatched June 2 1923. Eclipsed
 strongly compressed but without flattened areas, de-
 pressed rounded, transverse. Head & thorax edged.
 Pale linear very longitudinal lines 9 & 10 with
 a faint side, dorsal faint lines, 2 on 10 & 2
 confluent, appearing at the rim of transverse
 compressed at the end. Two stripes from behind
 forming 11 cells. Transverse narrow stripes, almost
 reticulate concave raised at vertex. Color
 dark brown. Size 2.5 x 6.5 x 4 mm.
 Hatched June 15. Hd rounded, dorsal at 5 pale orange
 shining. Body slender, rapidly tapering, normal.
 Pale yellowish with a 2-3 red-brown line above
 length, increased just at end. No dorsal, but pale
 subventral rounded line and elevated, setae white
 capitate. Both sides of antennae. (slide) all yellow
 Head June 17. Hd 5-6 flattened rounded dark flat, whitish
 with a blackish line behind ocelli and a faint sub-
 ventral line. Antennae brown. Body slender
 shining, whitish, but green throughout from just
 a subventral narrow black line. d. shape 1-2 and 13,
 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30,
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1183 (cf 1183A)

Woodward between same leaves of Birch, Kuch 6c June 6
1903. Hd 3.5 bilobed, pale, shiny pale yellow cells.
Face brown, body reddish, 12 segments enlarged
tubercles pointed whitish, feet showing green
2 thin white narrow stripes. 2d thin ridge
was narrower, 2 st. line was alone, 1 below
apical line was waved like the 2d. Feet
pale and fields tubercles small white, 1
above center of joint. The skin is papery brown
around the whitish pointed large thin subcuta-
neous and covered largely by the branches of the
epidermis, both those on the skin and stomach
very repeatedly visible. Spicula white, very
enlarged.
Cat no 20925 *C. f. punctata*

1184

Woodward? between same leaves of *Epilobium* June 6c
June 5, 1903. Hd rounded oblique, face a pale brown
showing a large smoky patch on vertex of each
lobe. Epistoma conspicuous, bases and white, tip
of each of palpi & cells black. Cat large brown
2 large blackish on front edge. Body black, smooth
with not very distinct, and a few tubercles dis-
tinct, a little warty in the folds. Tubercles
concolorous with dark hair dot. anal V. dull
between the first blackish. i-cii in line, ix+V.
(Good June 10)

1185

July 2 *Epilobium* 18965 Kuch 6c June 6, 1903
Hd 3.5, the segments and bristled, narrowing to the
apical end, flattening rounded. Smooth, slight for
light setae compound of rather broad & little curved
line with 4 edges, irregular brown point, a little char-
acter in long diameter and greatly curved. Pale yellow
widest part under 75 diameter. 6c 5c of same
Hatched June 12 Hd somewhat bilobed, pale brown smoky
color. By black smooth brown (red) rounded pointed
subcutaneous with a faintly pinkish, slightly
dark concolorous skin, pale of feet pale, tubercles
in places concolorous, all yellowish white in places
Hatched June 16 Hd bilobed whitish by black body slender, very
slender with narrow smoky black d. line. Feet pinkish
pale yellow, pale of feet, capitate, alternate, 1st 1st
July 19 Hd 1.0 bilobed, whitish like thick brown dotted on
large dorsal & 2 ventral bands, body rather slender
and much elongate, whitish in pale green not shiny
particular oblique. A broad d. dorsal brown band
indented between 1 & 11, a 2d series of curved brown
marks. Tubercles concolorous, setae short dark, alter-
nately directed forward & backward. The feet smooth, slightly

T. subfoveata n. sp.

Unidentified at Kaslo BC (cont p. 32)

262 Port by 2 on the river with BC. Very high
in valley of lake, spring, under a bush, full
of purple flowers, yellow stems and a few leaves
of the plant.

263 In a cold spring pool, near Kaslo BC June 8, 1903
Ref. June 13

1903 June 13 / 1903 June 13 / 1903 June 13

264 In pools and water holes, small, numerous
near Kaslo BC June 8. Not June 12 all ref. June 13
June 13. (June 13 still purple & leaves, these
were collected 264A 1903)

265 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

266 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

267 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

268 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

(Trichomanes)

269 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

270 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

271 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

272 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

273 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

274 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

2 Eggs by 2 washed 272 washed June 10 probably of species BB last egg
and 18 1903. much larger than 268. (Trichomanes) 69 blocks
at Kaslo BC which is about 1/2 inch long
very finely granular, orange, 2.8 x 0.2 mm
[See p. 68]

1195 1903 June 13

275 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

276 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

277 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

278 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

279 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

280 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

281 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

282 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

283 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

284 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

285 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

286 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

287 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

288 In a pool in a hill side of Kaslo. Spring
water, small & numerous, leaves of the plant
and roots of the plant in shallow side pools.
1903 June 13 / 1903 June 13 / 1903 June 13

LV *Hypocrita amica* H S

1205

Eggs by ♀ 19149 Kaslo BC June 11, 1903.
 Egg flat, flattened above below forming a distinct
 flat area in middle of side ends essentially
 alike without distinct depression a truncation.
 heavy white shining. Rety regular hexagonal,
 obscure near of areolate on the sides, more distinct
 on the flattening. $75 \times 5 \times 4$. Tied single adherent
 Hatched June 14 at Kaslo, B.C., club, eye black, mouth
 brown. Body moderate, not elongate but rapidly
 dropping, not slender, tubular. Setae invisible, pale
 yellowish, green from food, the incisions folded yellowish
 the body. Head yellow. Hd 5 rounded, anterior slightly
 prominent whitish. Body moderate, tubular, green
 from food, depression broad yellowish on back,
 tubular. Setae invisible.
 June 17 Hd 95 black, dark oblong, not shiny yellowish
 green, feet moderate, legs faintly granular grey
 brownish a narrow white ed line 2-11. Segs
 yellow, forming yellowish bands. Feet green tubular
 slightly setae minute brownish, slender tipped
 June 19 Hd 104 Same, ed line rather broad yellowish
 white, not contrasted. Legs rather short, legs not
 much longer than wide. A ventral whitish
 white band the a whitish of color spot on VII. 7 is
 white the head usually
 June 21 Hd 114 Slightly black, whitish green crossed with darker
 green shining granular spots. Body cylindrical a dark rounded
 dorsal a q, segs prominently annulate feet, legs a rounded
 with brown, ed line broad diffuse whitish a q, feet
 brownish a q, dotted with dark brown and black indi-
 cated by a q, dots. Setae black and, setae dark,
 brownish and long, a row of obscure whitish spots 5-8 and
 on 10-12 are a broad q band, dorsal pale than ground.
 Setae long with granular, setae a line in lobes. Prolegs
 with granular



1206

Eggs by ♀ 19149 *Palthis argutalis* Kaslo BC June 12 1903
 rounded hemispherical, translucent, greenish white
 about 80 lines ribs not change from the hollow, covered
 by a uniform hexagonal reticulation of slightly
 raised lines, one junction at the summit of a rib
 the next at base of a hollow. Apex uniformly reticulated
 some irregular red spotting. D. 5 mm.
 Hatched June 17 at Kaslo, B.C., from black in water
 pale below, shining. Body moderate 12 a little enlarged,
 feet normal, cord, tubular, honey yellow, the small
 tubular black, blackish brown, legs pale, setae round &
 setae moderate, pointed, dark. The feet black
 could not be found June 19

1207

Eggs by ♀ 19233 *Leptocryptus*, Kaslo BC June 12 1903.
 Ellipsoidal well flattened, rounded, truncation and depression
 distinct, all rounded uniformly set. with unmarked set
 broad, rounded, forming cells with 5 lobes but not
 nearly so very distinctly and tending to run in
 long, diameters. yellowish white, shining. $.6 \times .5 \times .4$
 (studs)

Satyra rubra

June 31 Cat 24187

1208

Eggs by ♀ 19230 *Noctua rosaria* Kaslo BC June 12
 13. Ellipsoidal, base flattened, ribs ± 25 , raised, rounded at
 front and summit. apex concave. smooth. fine
 and raised, micropyle reticulate. D. of pale yellow.
 atched June 18 Hd. 3 round bilobed, black, 5 high. Body
 olive chestnut brown, 12 enlarged. feet 7-8 short. Translucent
 tubercles, unmarked, reddish brown at base, with other feet
 blackish. Tubercles small blackish with long pale
 filamentous base. Head setae iv below center. On
 the shields. Spine black. Minus (slide) etc. Polyommatus
 June 23 Hd 5 round, shiny transparent colorless on side
 a vertex, dark brown, feet 7 small, whitish. Tubercles
 reddish along iii defining a strong white d. line. a
 mass of white setae. Tubercles conical. Tubercles rather large
 blackish. Setae short.
 June 27 Hd .8 round shiny reddish brown tubercles on a
 tubercles round curved base red at base. Body
 brown, small. feet 7 short, 8 enlarged, dorsal
 tubercles brown, red tubercles, sides darker brown, ventral
 pale. D. of line narrow, pure white dark line edge
 of narrowly broken. Setae short white filled with small
 setae. On the edges. Tubercles small blackish, setae short
 and all pale undist, shield not corrugated.
 June 28 Hd 1.3 round, broad slightly bilobed shiny pale
 tubercles small, reddish, feet 7 small, 8 enlarged
 enlarged feet equal. D. line white narrow. Tubercles
 dark brown, setae short. Setae reddish flesh color, smooth, containing
 setae i ii with black hair setae. feet 7 dark brown smooth
 feet enclosing above narrow broken white d. Satyry line
 broad, flat color with bright white narrow edge, setae
 feet 7 small, smooth in front, white, feet all pale.
 June 29 Hd 2. round shiny, pale, a heavy brown black line
 side ii, rounded above, a band in d. side having reticulate
 feet 7 short, 8 enlarged, 12 truncated oblique. Dorsal
 broad pale dotted in line of carinae where a strong shade.
 tubercles a tubercle only. d. line side broken; dark tubercles
 brown with a strong white line. Tubercles on 7 d. line and
 a narrow lateral tubercle. Setae short broad, white on edge
 dark reddish filled. The feet mostly old pale. Tubercles white
 and black that dot and round setae. Shield on wing d. corolla
 June 30 Hd 2.6 round shiny, shiny pale ground over
 with dark brown setae. Setae reticulate and very broad black, white
 setae short. Head brown feet equal 12 enlarged. Dorsal
 tubercles brown, dotted, setae central 8 a dark brown line
 and white line darker on rear of d. line, 12 white
 and black hair setae. Setae dark velvety brown, setae short
 setae short, setae by rear of setae line very obscurely. Setae short
 with white setae, filled with dark brown hair 5 d. line
 setae, setae short. A 3-4 tubercle. Two feet brown, old pale
 yellowish white, black tinged. 10 small. 12 small.

Aug 27 - 80° - 3.5 inches of rain from 10 AM to 1 PM. The rest of the day was clear and hot. The wind was from the north at 10-15 mph. The humidity was very high.

[illegible]

1210

[illegible]

Exemple de l'usage

1211

Blister like raised on upper upper side at tip.
 Greenish white, broad, from not extended.
 Blister large, the upper side only elevated
 white, appearing again in spots when the green
 reappears. Some not, open up leaf on upper
 side and also at ends of pinning.

Out July 25 Sat 22658

Myrica aspera *Myrica aspera*

1212

Greenish white, broad, from not extended.
 Blister large, the upper side only elevated
 white, appearing again in spots when the green
 reappears. Some not, open up leaf on upper
 side and also at ends of pinning.

Out July 20 Sat 21924

Myrica aspera

1213 *Myrica aspera* *Myrica aspera*
 Leaf yellowish green, broad, from not extended.
 Blister large, the upper side only elevated
 white, appearing again in spots when the green
 reappears. Some not, open up leaf on upper
 side and also at ends of pinning.

1214

Egg of 8 seen 19181 Kaslo BC June 13 1903, Elliptical
 flattened, depressed, truncation all well rounded,
 rounded, normal. Pits stellate raised, irregular
 of various size, markedly raised. Distinct but cell
 lines very shallow. Surface finely punctate. Green
 green all over. 8 x 6 x 4. Pale yellow very reddish
 at end June 19 14 round blackish pale green along with
 2 rows of purple spots on each side, setae rather long.
 Body moderate, rather strongly looping, pale whitish with
 longitudinal brown bands about as wide as spaces, 8
 dorsal spots, 58 and 8. Feet pale. Antennae from
 dark setae, pendulous tipped. Tubercles small from
 behind aspen, Polygnum, horsetail, hawthorn, leaved, blackberry
 leaves, birch, maple, clover, myrica-like, juncos, willow, *Myrica*
 2 rows, cedar, fig, wild, millet, mustard, *Myrica*, *Myrica*, *Myrica* (did)

Myrica aspera *Myrica aspera*

Canadell found one egg
Clearwater July 16

1231

Egg by 9 19334 Acromyces not known in Canada, June 16, 1903
Shape of 3 spheres, base broadly flat. About 50 microns
diameter, along middle and again near vertex
into 3 lobes. In section irregularly curved, else
minutely granular. Shape of 2.1.3, 4.8
Cells are reticulate in structure, 1.2.2.6.14
Dorsal side, minute long, ant. short, short on vertex
leading to dorsal lobes. Epithelium 1 ant. white.
Head of adult narrow, whitish, a narrow shade from
white to light on 12.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.30.31.32.33.34.35.36.37.38.39.40.41.42.43.44.45.46.47.48.49.50.51.52.53.54.55.56.57.58.59.60.61.62.63.64.65.66.67.68.69.70.71.72.73.74.75.76.77.78.79.80.81.82.83.84.85.86.87.88.89.90.91.92.93.94.95.96.97.98.99.100.101.102.103.104.105.106.107.108.109.110.111.112.113.114.115.116.117.118.119.120.121.122.123.124.125.126.127.128.129.130.131.132.133.134.135.136.137.138.139.140.141.142.143.144.145.146.147.148.149.150.151.152.153.154.155.156.157.158.159.160.161.162.163.164.165.166.167.168.169.170.171.172.173.174.175.176.177.178.179.180.181.182.183.184.185.186.187.188.189.190.191.192.193.194.195.196.197.198.199.200.201.202.203.204.205.206.207.208.209.210.211.212.213.214.215.216.217.218.219.220.221.222.223.224.225.226.227.228.229.230.231.232.233.234.235.236.237.238.239.240.241.242.243.244.245.246.247.248.249.250.251.252.253.254.255.256.257.258.259.260.261.262.263.264.265.266.267.268.269.270.271.272.273.274.275.276.277.278.279.280.281.282.283.284.285.286.287.288.289.290.291.292.293.294.295.296.297.298.299.300.301.302.303.304.305.306.307.308.309.310.311.312.313.314.315.316.317.318.319.320.321.322.323.324.325.326.327.328.329.330.331.332.333.334.335.336.337.338.339.340.341.342.343.344.345.346.347.348.349.350.351.352.353.354.355.356.357.358.359.360.361.362.363.364.365.366.367.368.369.370.371.372.373.374.375.376.377.378.379.380.381.382.383.384.385.386.387.388.389.390.391.392.393.394.395.396.397.398.399.400.401.402.403.404.405.406.407.408.409.410.411.412.413.414.415.416.417.418.419.420.421.422.423.424.425.426.427.428.429.430.431.432.433.434.435.436.437.438.439.440.441.442.443.444.445.446.447.448.449.450.451.452.453.454.455.456.457.458.459.460.461.462.463.464.465.466.467.468.469.470.471.472.473.474.475.476.477.478.479.480.481.482.483.484.485.486.487.488.489.490.491.492.493.494.495.496.497.498.499.500.501.502.503.504.505.506.507.508.509.510.511.512.513.514.515.516.517.518.519.520.521.522.523.524.525.526.527.528.529.530.531.532.533.534.535.536.537.538.539.540.541.542.543.544.545.546.547.548.549.550.551.552.553.554.555.556.557.558.559.560.561.562.563.564.565.566.567.568.569.570.571.572.573.574.575.576.577.578.579.580.581.582.583.584.585.586.587.588.589.590.591.592.593.594.595.596.597.598.599.600.601.602.603.604.605.606.607.608.609.610.611.612.613.614.615.616.617.618.619.620.621.622.623.624.625.626.627.628.629.630.631.632.633.634.635.636.637.638.639.640.641.642.643.644.645.646.647.648.649.650.651.652.653.654.655.656.657.658.659.660.661.662.663.664.665.666.667.668.669.670.671.672.673.674.675.676.677.678.679.680.681.682.683.684.685.686.687.688.689.690.691.692.693.694.695.696.697.698.699.700.701.702.703.704.705.706.707.708.709.710.711.712.713.714.715.716.717.718.719.720.721.722.723.724.725.726.727.728.729.730.731.732.733.734.735.736.737.738.739.740.741.742.743.744.745.746.747.748.749.750.751.752.753.754.755.756.757.758.759.760.761.762.763.764.765.766.767.768.769.770.771.772.773.774.775.776.777.778.779.780.781.782.783.784.785.786.787.788.789.790.791.792.793.794.795.796.797.798.799.800.801.802.803.804.805.806.807.808.809.810.811.812.813.814.815.816.817.818.819.820.821.822.823.824.825.826.827.828.829.830.831.832.833.834.835.836.837.838.839.840.841.842.843.844.845.846.847.848.849.850.851.852.853.854.855.856.857.858.859.860.861.862.863.864.865.866.867.868.869.870.871.872.873.874.875.876.877.878.879.880.881.882.883.884.885.886.887.888.889.890.891.892.893.894.895.896.897.898.899.900.901.902.903.904.905.906.907.908.909.910.911.912.913.914.915.916.917.918.919.920.921.922.923.924.925.926.927.928.929.930.931.932.933.934.935.936.937.938.939.940.941.942.943.944.945.946.947.948.949.950.951.952.953.954.955.956.957.958.959.960.961.962.963.964.965.966.967.968.969.970.971.972.973.974.975.976.977.978.979.980.981.982.983.984.985.986.987.988.989.990.991.992.993.994.995.996.997.998.999.1000.1001.1002.1003.1004.1005.1006.1007.1008.1009.1010.1011.1012.1013.1014.1015.1016.1017.1018.1019.1020.1021.1022.1023.1024.1025.1026.1027.1028.1029.1030.1031.1032.1033.1034.1035.1036.1037.1038.1039.1040.1041.1042.1043.1044.1045.1046.1047.1048.1049.1050.1051.1052.1053.1054.1055.1056.1057.1058.1059.1060.1061.1062.1063.1064.1065.1066.1067.1068.1069.1070.1071.1072.1073.1074.1075.1076.1077.1078.1079.1080.1081.1082.1083.1084.1085.1086.1087.1088.1089.1090.1091.1092.1093.1094.1095.1096.1097.1098.1099.1100.1101.1102.1103.1104.1105.1106.1107.1108.1109.1110.1111.1112.1113.1114.1115.1116.1117.1118.1119.1120.1121.1122.1123.1124.1125.1126.1127.1128.1129.1130.1131.1132.1133.1134.1135.1136.1137.1138.1139.1140.1141.1142.1143.1144.1145.1146.1147.1148.1149.1150.1151.1152.1153.1154.1155.1156.1157.1158.1159.1160.1161.1162.1163.1164.1165.1166.1167.1168.1169.1170.1171.1172.1173.1174.1175.1176.1177.1178.1179.1180.1181.1182.1183.1184.1185.1186.1187.1188.1189.1190.1191.1192.1193.1194.1195.1196.1197.1198.1199.1200.1201.1202.1203.1204.1205.1206.1207.1208.1209.1210.1211.1212.1213.1214.1215.1216.1217.1218.1219.1220.1221.1222.1223.1224.1225.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2226.2227.2228.2229.2230.2231.2232.2233.2234.2235.2236.2237.2238.2239.2240.2241.2242.2243.2244.2245.2246.2247.2248.2249.2250.2251.2252.2253.2254.2255.2256.2257.2258.2259.2260.2261.2262.2263.2264.2265.2266.2267.2268.2269.2270.2271.2272.2273.2274.2275.2276.2277.2278.2279.2280.2281.2282.2283.2284.2285.2286.2287.2288.2289.2290.2291.2292.2293.2294.2295.2296.2297.2298.2299.2300.2301.2302.2303.2304.2305.2306.2307.2308.2309.2310.2311.2312.2313.2314.2315.2316.2317.2318.2319.2320.2321.2322.2323.2324.2325.2326.2327.2328.2329.2330.2331.2332.2333.2334.2335.2336.2337.2338.2339.2340.2341.2342.2343.2344.2345.2346.2347.2348.2349.2350.2351.2352.2353.2354.2355.2356.2357.2358.2359.2360.2361.2362.2363.2364.2365.2366.2367.2368.2369.2370.2371.2372.2373.2374.2375.2376.2377.2378.2379.2380.2381.2382.2383.2384.2385.2386.2387.2388.2389.2390.2391.2392.2393.2394.2395.2396.2397.2398.2399.2400.2401.2402.2403.2404.2405.2406.2407.2408.2409.2410.2411.2412.2413.2414.2415.2416.2417.2418.2419.2420.2421.2422.2423.2424.2425.2426.2427.2428.2429.2430.2431.2432.2433.2434.2435.2436.2437.2438.2439.2440.2441.2442.2443.2444.2445.2446.2447.2448.2449.2450.2451.2452.2453.2454.2455.2456.2457.2458.2459.2460.2461.2462.2463.2464.2465.2466.2467.2468.2469.2470.2471.2472.2473.2474.2475.2476.2477.2478.2479.2480.2481.2482.2483.2484.2485.2486.2487.2488.2489.2490.2491.2492.2493.2494.2495.2496.2497.2498.2499.2500.2501.2502.2503.2504.2505.2506.2507.2508.2509.2510.2511.2512.2513.2514.2515.2516.2517.2518.2519.2520.2521.2522.2523.2524.2525.2526.2527.2528.2529.2530.2531.2532.2533.2534.2535.2536.2537.2538.2539.2540.2541.2542.2543.2544.2545.2546.2547.2548.2549.2550.2551.2552.2553.2554.2555.2556.2557.2558.2559.2560.2561.2562.2563.2564.2565.2566.2567.2568.2569.2570.2571.2572.2573.2574.2575.2576.2577.2578.2579.2580.2581.2582.2583.2584.2585.2586.2587.2588.2589.2590.2591.2592.2593.2594.2595.2596.2597.2598.2599.2600.2601.2602.2603.2604.2605.2606.2607.2608.2609.2610.2611.2612.2613.2614.2615.2616.2617.2618.2619.2620.2621.2622.2623.2624.2625.2626.2627.2628.2629.2630.2631.2632.2633.2634.2635.2636.263

1241

Eggs by 99 *Tettia ramosissima* 19433, 19445 etc, June 18, 1903
 laid singly, adherent sticks under a part. Head suboval,
 for round head, slightly flattened, about 40 ribs
 low, and short, diminishing toward vertex. Rets
 are all strongly curved to the side and cross at the
 bottom, rounded, and sharp. All granular
 irregular. Area about vertex slightly reticulate. The
 area itself a raised zone with circle of granular
 cells. Head yellow. D. 9 mm. Late larva has large spot
 Hatched June 25 44 rounded, pale, wider than high, a high
 black, glaucous & certain whitish, body color whitish
 on head not rounded, irregular, blackish. Head
 with 2 detached setae. Tars. very large, setae pale
 with bulbous tips, in above center of spiracle. The feet blackish
 and 2nd 4th 5th rounded, blackish. Head black. Body black
 12 not perceptibly enlarged, solid greenish, with faint white
 lines, narrow longitudinally. Each plate black, black at
 1. 7. 8 small, tubercle round, pale, setae short, dark. The feet dusky
 Head 11 8 10 6 rounded, quadrilateral, long black, subcylindrical. Head
 small, brown, very shiny, a little dark, line from vertex down
 white, shiny, pale. 54 more minute. Cth large, 0, tubercle
 white, small, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 19th, 20th, 21st, 22nd, 23rd, 24th, 25th, 26th, 27th, 28th, 29th, 30th, 31st, 32nd, 33rd, 34th, 35th, 36th, 37th, 38th, 39th, 40th, 41st, 42nd, 43rd, 44th, 45th, 46th, 47th, 48th, 49th, 50th, 51st, 52nd, 53rd, 54th, 55th, 56th, 57th, 58th, 59th, 60th, 61st, 62nd, 63rd, 64th, 65th, 66th, 67th, 68th, 69th, 70th, 71st, 72nd, 73rd, 74th, 75th, 76th, 77th, 78th, 79th, 80th, 81st, 82nd, 83rd, 84th, 85th, 86th, 87th, 88th, 89th, 90th, 91st, 92nd, 93rd, 94th, 95th, 96th, 97th, 98th, 99th, 100th, 101st, 102nd, 103rd, 104th, 105th, 106th, 107th, 108th, 109th, 110th, 111th, 112th, 113th, 114th, 115th, 116th, 117th, 118th, 119th, 120th, 121st, 122nd, 123rd, 124th, 125th, 126th, 127th, 128th, 129th, 130th, 131st, 132nd, 133rd, 134th, 135th, 136th, 137th, 138th, 139th, 140th, 141st, 142nd, 143rd, 144th, 145th, 146th, 147th, 148th, 149th, 150th, 151st, 152nd, 153rd, 154th, 155th, 156th, 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1252

Scapto on Agave? Kaslo BC June 19 1903
 (Page I on a slide). Has long head horns, differing from
 the preceding sp.
 Most June 24. Can't distinguish from granberry sp.
 by careful comparison

1252A

Care leaves in bud. Young leaves as far as can
 be seen from cases, first, yellow yellow, shining and
 glaucous (slide)

1252B Case looks different. In June 24 Oct 20/11

1253

Scapto on Agave? Kaslo BC June 19 1903. Gladden
 1/2 of leaf all empty.

1254

Selected in Ceanothus perhaps 1158 but seems
 different. In leaves, glaucous heads June 20 1903.
 Body green with black head & 2 white in creases.
 Black! 8 veins, just with shadow of line
 Side 1st. light brown, shiny apex 1/2. C-8th section
 brown with black head (red line). Crest edge 1/2,
 increase 3-4 and 4-5 white. Head dark
 common purple vine or head delinquent green post.
 d. 1st line white, broken blotched, but reddest
 to dots and a few dark beside. Stg. and greenish
 white, venter purplish greenish. Tubercles moderate
 black. 10-12. The feet black, abd pale. Pale
 line less distinct in 24 but indicated in dots.
 head

1255

all higher repeated after a
 while and others
 egg by ♀ Acronycta 19451 (immature) Kaslo BC, June 21, 1903
 1st inst. moderately oval, as seen from edge rather steep
 5th rib distinct in middle & side, and 2nd rib
 broad venter, irregular ending almost microscopical
 and which is obscure, very, moderate, no reticulation.
 Head green. D. 1mm, H. 4 mm.
 2nd inst. 1st all white. 1st section brownish & white. Small
 brownish body white, the feet showing a red line, and
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1262

Nisus sp? on *Humbleberry* leaves BC June 23 1903
 Head & neck in top of leaf
 Dec July 31 HD large roundish, dull black, pilose, in photo
 neck short with large shield, black. Feet 2 & 3 black, 4 green
 Red tinted, behind before & behind, pale, and greenish
 annulate. Pale granular white, rather brownish

1263

Choreutis on *Massachusetts* (containing) leaves BC
 June 23 1903. In 2 eggs in hole on bark in top of
 leaf, cylindrical, HD long elliptical, mouth pointed
 black full, 2 high, dull black, pale below, with black
 annulate lines. Body cylindrical tapering at end, slender
 segs coarsely annulate, feet small, slender. Pale
 green, a band of yellowish red behind shade, black
 small black dorsal area just in the wing.
 1st & 2nd aliphaginate, 3 smaller: 4 with ventral
 on dorsolateral of 4. Feet all pale
 June 23 1903. July 1st white smooth
 July 12 '07 Cat 21107 *Choreutis leucobasis* Fern

1264

Choreutis on *Massachusetts* (containing) leaves BC June 23 1903.
 July 29 1903 Cat 21604

Choreutis *gracillanilla* Ch

1265

Colophila on soapberry *Karst* BC June 24
 Larva dark robust cylindrical with large tho.
 feet and scutella abd over on 7-9 segs.
 Pale orange, plates & broken shield of 3 black.
 (slide)

1266

Tortricids webbing heads of *Ayala* leaves June 24
 HD brown, body greenish, grayish & light brown
 parents. 1 greenish yellowish (inflated)
 Cat Aug 6 Cat 27189
Asteris *castanea*

Lyonetia (B) 1267 for *Bunch*
 Larva mine on willow, small, black, common
Ctenostoma sp. Found again June 24.
 Cat July 8 Cat 20950

1268

Perhaps = 1238. Larva on the growth showing greenish
 and head heavily black spotted, etc. & 2 spots
 blackish white with a red dusky shade. (inflated)
 Spun greenish brown, no sign of white in a cloud of
 delicate web in a deep hole.
 June 29 '07 Cat 21599

Zelleria gracillanilla Bunch

1292

Egg by 2 *Artemia salina* 20674 Kaslo BC, July 8 1903
 Circular, flat, center domed slightly and without a
 strongly flattened rim. Pale yellow. The margin
 distinctly irregular and at several points
 is complete, raised, raised a even a small point of
 broad shallow pitting especially the blackish red
 central radial streak by low coarse radial lines.
 Outer half red. Pale green nucleus chaotically leaving
 a broad white edge. D. 1/16. Length 1/16.
 Later a numerous dark red ring about middle of side
 and a small brownish spot on the ventral side by 1/12.
 Later also a small brownish spot on the ventral side by 1/12.
 The streak is a broad red ring encircling the outside
 of the shell. It is somewhat bilobed. Very black, smooth, faint
 white, dark, radiating, dorsal. The dorsal white with dark brown
 dorsal patches on 11-12, 13-14 and 15-16. The large blackish
 the 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 19th, 20th, 21st, 22nd, 23rd, 24th, 25th, 26th, 27th, 28th, 29th, 30th, 31st, 32nd, 33rd, 34th, 35th, 36th, 37th, 38th, 39th, 40th, 41st, 42nd, 43rd, 44th, 45th, 46th, 47th, 48th, 49th, 50th, 51st, 52nd, 53rd, 54th, 55th, 56th, 57th, 58th, 59th, 60th, 61st, 62nd, 63rd, 64th, 65th, 66th, 67th, 68th, 69th, 70th, 71st, 72nd, 73rd, 74th, 75th, 76th, 77th, 78th, 79th, 80th, 81st, 82nd, 83rd, 84th, 85th, 86th, 87th, 88th, 89th, 90th, 91st, 92nd, 93rd, 94th, 95th, 96th, 97th, 98th, 99th, 100th, 101st, 102nd, 103rd, 104th, 105th, 106th, 107th, 108th, 109th, 110th, 111th, 112th, 113th, 114th, 115th, 116th, 117th, 118th, 119th, 120th, 121st, 122nd, 123rd, 124th, 125th, 126th, 127th, 128th, 129th, 130th, 131st, 132nd, 133rd, 134th, 135th, 136th, 137th, 138th, 139th, 140th, 141st, 142nd, 143rd, 144th, 145th, 146th, 147th, 148th, 149th, 150th, 151st, 152nd, 153rd, 154th, 155th, 156th, 157th, 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1300

Acronycta on willow, mature: July 6 1903. Hd 3.5 bilobed, shining from black, shagreened. Body velvety black in segs, more leathery between joints, small, erect, subopaque, bright orange olivaceous. Hair same color, bristly, mottled, dorsal ones broadly black tipped. Ant. segs 12 also orange. Post 1 larger than 11, 10 minute. Same lat. hair large but of same orange color. *Sp. 1903*

1301

Acronycta on willow, mature: July 7 1903. Hd 3.5 bilobed, shining from black, shagreened. Body velvety black in segs, more leathery between joints, small, erect, subopaque, bright orange olivaceous. Hair same color, bristly, mottled, dorsal ones broadly black tipped. Ant. segs 12 also orange. Post 1 larger than 11, 10 minute. Same lat. hair large but of same orange color. *Sp. 1903*

Ph. horae angustata (Karl?)

1302

Ph. horae angustata on willow, mature: July 11 1903. Hd 3.5 bilobed, shining from black, shagreened. Body velvety black in segs, more leathery between joints, small, erect, subopaque, bright orange olivaceous. Hair same color, bristly, mottled, dorsal ones broadly black tipped. Ant. segs 12 also orange. Post 1 larger than 11, 10 minute. Same lat. hair large but of same orange color. *Sp. 1903*

1303

Acronycta on willow, mature: July 11 1903. Hd 3.5 bilobed, shining from black, shagreened. Body velvety black in segs, more leathery between joints, small, erect, subopaque, bright orange olivaceous. Hair same color, bristly, mottled, dorsal ones broadly black tipped. Ant. segs 12 also orange. Post 1 larger than 11, 10 minute. Same lat. hair large but of same orange color. *Sp. 1903*

1304

Acronycta on willow, mature: July 11 1903. Hd 3.5 bilobed, shining from black, shagreened. Body velvety black in segs, more leathery between joints, small, erect, subopaque, bright orange olivaceous. Hair same color, bristly, mottled, dorsal ones broadly black tipped. Ant. segs 12 also orange. Post 1 larger than 11, 10 minute. Same lat. hair large but of same orange color. *Sp. 1903*

1305

Acronycta on willow, mature: July 11 1903. Hd 3.5 bilobed, shining from black, shagreened. Body velvety black in segs, more leathery between joints, small, erect, subopaque, bright orange olivaceous. Hair same color, bristly, mottled, dorsal ones broadly black tipped. Ant. segs 12 also orange. Post 1 larger than 11, 10 minute. Same lat. hair large but of same orange color. *Sp. 1903*

1306

Acronycta on willow, mature: July 11 1903. Hd 3.5 bilobed, shining from black, shagreened. Body velvety black in segs, more leathery between joints, small, erect, subopaque, bright orange olivaceous. Hair same color, bristly, mottled, dorsal ones broadly black tipped. Ant. segs 12 also orange. Post 1 larger than 11, 10 minute. Same lat. hair large but of same orange color. *Sp. 1903*

1307

1295 2, 4, 6, 8, 10, 20618 Kaslo BC July 7 1903. Elliptical
 compressed but without flattening, depression slight, mid-
 line rounded. Ret. fine, flat, light faced, of the wavy
 rounded stellate pattern, not deeply stellate. Having
 pale orange, 5 x 4 x 4 mm. (two sides)
 Hatched July 19 1st stage pale yellow, eye black, mouth brown.
 Body markings normal. Tubercles yellowish, a narrow band
 brown d. line and reaching entire end, dark distinct. Seg.
 in series slightly folded. T & S. invisible. Feet pale, anal spread
 (like *Epilobium* - *Gollen* - *gaines*) 1 Dead July 19

1308

1308

1295 2, 4, 6, 8, 10, 20827 *Clemencia adusta* Kaslo BC, July 7 1903
 9 larval, 1st stage scarcely flattened, mouth, greatly enlarged
 the rets a little elongated vertically. Pale yellow, rounded
 1 mm from brown from the mouth which stands out
 mid. D. 8 mm. From large for width.
 Hatched July 19 1st stage whitish shining tubercles dotted with black
 on sides, but leaving an elliptical pale patch on summit of
 each side, eye black, mouth brown. Body markings a little more
 glands centrally, colored transparent, no shield. Tubercles small
 situated on rounded mid-vent. Stage separate, no mid-vent
 of body part, it is of the separate but more appressed than
 1st stage. Setae pointed, stiff. Feet normal with long slender
 claspers. 8 glands plain, small, and brown in part. (from 8
 1st stage & claspers) just pale tubercles. Setae slightly curved, pointed.
 4, 5, 6, 12 sd with distinct diffuse brown spot.
 anal sd 55 whitish below from black all over rest of anal. Large
 but short & blunt. Aclatation 1 & 11 single separate, 1 dorsal
 11 with 2 hair coats separate, 11 & 11 single, 11 st. part, 11 sd, 11 with
 2 hairs, short hair on collar. 11 plates. Coloration whitish
 head reticulate in brown, 11 & 11 aggregated into 11
 distinct sd patch. 11ly defining a d. sd line & head, 11ly
 back, brown d. line and of elevated convex area, 11ly just back
 and July 13 lat. 6 to lat. 11 11ly and dead, dead July 19

1309

Egg by *Proctrid* 20502 Kaslo BC July 7 1903.
 Spherical, slightly spheroidally flattened, single in
 bunch. Shiny yellowish white, no ribs, ret. flat in
 irregular hexagonal, arranged somewhat in verti-
 cal on the side. D. 8 mm.
 Hatched July 17. Larva and bled shiny dark brown. Cth. for
 blackish. Body extremely whitish, pale, tubercles in rows. R.
 slender, a series of enlarged, not 7, 8 small. Setae pale
 moniliform, no other tubercles. (Could not find any July 20)

1310

Egg by *Proctrid* 20470 etc etc Kaslo BC July 8 1903. Larva
 under cracks of bark in trunk. Larva for egg from narrow 7 ft.
 rather flatly spheroidal with double flattened ret.
 tubercles, the ones flattened depressed, also almost poly-
 hedral, ret. somewhat raised rather broad rounded hemi-
 spheroidal; no ribs; no structure at rim of egg, only somewhat
 dented. Pale yellow. D. 6 mm. *Diastylis* (July 27) 1 escaped
 (remaining egg sterile)

1331

Egg by 3 Portland 21567 Kaylor 111 July 21 1903. Laid in a house under the summer porch which was stuck to glass by them. 1/2 spherical, covered with small pits, base flat & unmarked irregular. Pale yellow with brownish red edge of large sector where it is more or less irregular. Ridge. Sides & ribs raised, given by raised ribs which meet at an angle in the depression, their being vertical flat bottom. Microscopic, smooth, raised. Pale yellowish red. Ridge spot 2 & 5. Colored (pale) and all set in a pile under the label. No marks with ice, plates electrical light black, top white dorsal dark granular. 7. large angular. Setae with clear bulbous tips, rather long. Short setae, 12 pairs, feet 7 & 8 smaller. (headless) and legs 4 1/2. 4. rounded above, flat, brown. C. 1/2, small, top plate, 1 round tubercle where head foot raised =, dorsal dark brown with very faint whitish 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, all depressed edges. Setae curved black with yellow tip, adhibitory plates & cuticular. Feet 7 & 8 with red line.

1332

Egg by 4 21493 Kaylor 111 July 21 1903. Laid in a large irregular patch. 3/4 spherical, base flattened. Pale yellowish red with brownish red edge of large sector where it is more or less irregular. Ridge. Sides & ribs raised, given by raised ribs which meet at an angle in the depression, their being vertical flat bottom. Microscopic, smooth, raised. Pale yellowish red. Ridge spot 2 & 5. Colored (pale) and all set in a pile under the label. No marks with ice, plates electrical light black, top white dorsal dark granular. 7. large angular. Setae with clear bulbous tips, rather long. Short setae, 12 pairs, feet 7 & 8 smaller. (headless) and legs 4 1/2. 4. rounded above, flat, brown. C. 1/2, small, top plate, 1 round tubercle where head foot raised =, dorsal dark brown with very faint whitish 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, all depressed edges. Setae curved black with yellow tip, adhibitory plates & cuticular. Feet 7 & 8 with red line.

1335

Egg by 222195 *Imbricaria* *opht. clausae* Kaslo BC July 22 1903
 Elliptical, flattened above, below, green, a red vein on one side
 smooth. $0.2 \times 1.9 \times 1.8$ mm. Hatched July 24 been brown red

1336

2 eggs by 222200 *Imbricaria* *opht. clausae* Kaslo BC July 23 1903 nearly spherical
 base smooth, flattened. Ribs 44 around the margin diminishing and
 gradual by submargin, granular almost linear, low, the surface
 flat between, joined, small narrow can others form a
 cells rather obsolete, dorsal angles reticulate, smaller as
 approaching the middle, which is not raised, nearly white, D. 7
 Hatched July 25 (escaped) other hatched Aug 1 and also escaped.

Imbricaria *opht. clausae*

1337

egg by 222199 *Imbricaria* *opht. clausae* Kaslo BC, July 22 1903. Spherical
 slightly above. Higher than wide but becoming conical, rounded
 at a little flattened. Ribs 44 diminishing above, rather
 low, well elevated, joined by fine oblique cross striae
 forming around square cells. Scales reddish red, above the
 mic. No cells which is scarcely raised like yellow D. 7

1338 [occurrence 1350]

Eggs by 22 21341, 21342, 21343 etc. *Camponotus pennsylvanicus*? Kest. 13.5. 1903. Spherical, symmetrical, base not more flattened than vertex. Sculpturing obsolete. Under a lens the ribs are faintly shadowed, thick, diminishing along and under 17 faint, deep setaceous, and faint rounded not showing over surface. Mic. rosette rather distinct. Pale ochraceous. D. 8. Laid in groups strongly adherent. One lateral line 7 feet dist. where indicated (see slide). Wings hatched Aug 5 and after big and. Aug 29. H. 5. Head black. Ant. blackish. Red mandibles =, brown maxillary ligulae, 1st lat. brownish white, 2nd lat. reddish brown. 3rd lat. dark edged. 4th lat. at 1st ring black. 5th lat. of 3rd palpus with dark yellow bottom lobe, 5th lat. distinct white & increased by 1 dark 2nd area. 7th dark obscure.

Camponotus pennsylvanicus Kest.

1339

Eggs by 22 21557-21688 *Camponotus* Kest. 13.5. 1903. Laid late, rolling about. General spherical, a slight flattening at vertex and base. Ribs distinct. Strong with rounded bottom. Section 36 at side diminishing along by confluence. Pat. fine obscure forming 2 cells. 7th lat. 1st second small at vertex in one pair of stripes means = 1/2 then but more practising to mic. rosette which is scarcely visible. Pale yellow. 7mm.

(Stenob.) *Camponotus pennsylvanicus* Kest.

208. *Macropus* sp. fossil filled sandy soil with
 behind large white clumps. Fossils - *colluvium* and
 same size reaching to by July 4. Dried in rows
 and piles by drying. Fossils July 4. Some fossils in soil
 still found July 22; also *crinoid* *colluvium* and
 later many *Synsira*
 July 13 high tide on meadows. Many *colluvium* hatched on
 grass. In to by July 19.

209. The spot of *Macropus* fossil which had no *colluvium*
 with 208 same layer and (went to north). This *colluvium*
 island July 4. *Crinoid*?

210. In full spring water adjoining 208 pool, July 5, small
 long tubers. *salivarium*? *colluvium* July 18. *colluvium*

212. In full spring pool a 1/2 mile back in the country
Macropus July 5, 1904. Small *colluvium* tubers.
 Dead July 22. *Crinoid* *colluvium* by table - see slide.

1855
 Eggs of *Macropus semipalmatus* from N. Y. Fossil, N. Y. 1857, 1904.
 (Red July 2). Said in groups but *colluvium* separate and *colluvium*
 with a thin *colluvium* *colluvium* from the north. Elliptical, dark
 yellow with thick and not flattened. 6 x 4 x 3 mm. The skin
 is smooth, shining, but irregularly *colluvium*, *colluvium* in
 a row of *colluvium* *colluvium*. The *colluvium* *colluvium* are rather
 long, straight and of a *colluvium* white, often curved or bent at one
 end and radiating from the *colluvium* surface. Said in groups of
 8 to 16, opened about their own width. *colluvium* *colluvium*. (Hatched)

1356 *Alnus incana* (L.) Moench[illegible]

July - 1908 1357
Tolmie, on road from Port Angeles, B.C. July 25, 1908
Semi brown, dorsal & ventral white. Ventrals
H. brown, small. Long translucent yellowish. Red and
dark green. Flashed & translucent. Dorsal
the dorsal tubus opening yellowish.
Ant.

[illegible][illegible][illegible]

1567

Tortoise in grass, Westbury RD Aug 21 1904. H. light
brownish red, 3 black lines each side mouth on 6 and
below eye. 1 line with white, 1 spot on white. 1 line
concolorous from tail with a black curved line at
last. head, body, all pale green, translucent. feet
blackish green, 7 small blackish red spots. Pale.

1568

Tortoise in grass, Westbury RD Aug 21 1904. H. light
brownish red, 3 black lines each side mouth on 6 and
below eye. 1 line with white, 1 spot on white. 1 line
concolorous from tail with a black curved line at
last. head, body, all pale green, translucent. feet
blackish green, 7 small blackish red spots. Pale.

1569

Tortoise in grass, Westbury RD Aug 21 1904. H. light
brownish red, 3 black lines each side mouth on 6 and
below eye. 1 line with white, 1 spot on white. 1 line
concolorous from tail with a black curved line at
last. head, body, all pale green, translucent. feet
blackish green, 7 small blackish red spots. Pale.

1570

Tortoise in grass, Westbury RD Aug 21 1904. H. light
brownish red, 3 black lines each side mouth on 6 and
below eye. 1 line with white, 1 spot on white. 1 line
concolorous from tail with a black curved line at
last. head, body, all pale green, translucent. feet
blackish green, 7 small blackish red spots. Pale.

1571

Tortoise in grass, Westbury RD Aug 21 1904. H. light
brownish red, 3 black lines each side mouth on 6 and
below eye. 1 line with white, 1 spot on white. 1 line
concolorous from tail with a black curved line at
last. head, body, all pale green, translucent. feet
blackish green, 7 small blackish red spots. Pale.

1572

Tortoise in grass, Westbury RD Aug 21 1904. H. light
brownish red, 3 black lines each side mouth on 6 and
below eye. 1 line with white, 1 spot on white. 1 line
concolorous from tail with a black curved line at
last. head, body, all pale green, translucent. feet
blackish green, 7 small blackish red spots. Pale.

1573

Tortoise in grass, Westbury RD Aug 21 1904. H. light
brownish red, 3 black lines each side mouth on 6 and
below eye. 1 line with white, 1 spot on white. 1 line
concolorous from tail with a black curved line at
last. head, body, all pale green, translucent. feet
blackish green, 7 small blackish red spots. Pale.

1574

Tortoise in grass, Westbury RD Aug 21 1904. H. light
brownish red, 3 black lines each side mouth on 6 and
below eye. 1 line with white, 1 spot on white. 1 line
concolorous from tail with a black curved line at
last. head, body, all pale green, translucent. feet
blackish green, 7 small blackish red spots. Pale.

Sept 15 1935

Shed Oct 10 How g 3 a little larger than 400 but not very
 short, 6-11 distal ends of a little longer. 12 very long
 and hair-like. Side lines are very short. The
 lower corner of head is yellowish brown. The
 ground under side of abdomen yellowish brown. Ground
 divided at 8 where the split is replaced by red and
 in brown w. The last patch 11-12 is a little smaller.
 Below 9-10. Head light red. Side line clear green.
 a large white line below 11 & above 12. White
 marks in the last defined space. Skin granular.
 Spine pale. No caltropes except patch 2 on the
 head and per spot on brown D12. Dorsal
 yellowish dots. 11 round with white tips. 12 white
 with narrowest central line.
 Shed Oct 24 No caltropes fully developed. Under 1 VIII.
 (to Oct 24) after eating dead leaves in the house)

679⁵/₈

